

DNA ENCODING A HUMAN MELANIN CONCENTRATING HORMONE  
RECEPTOR (MCH1) AND USES THEREOF

Abstract of the Disclosure

5 This invention provides an isolated nucleic acid encoding  
a human MCH1 receptor, a purified human MCH1 receptor,  
vectors comprising isolated nucleic acid encoding a human  
MCH1 receptor, cells comprising such vectors, antibodies  
10 directed to a human MCH1 receptor, nucleic acid probes  
useful for detecting nucleic acid encoding human MCH1  
receptors, antisense oligonucleotides complementary to  
unique sequences of nucleic acid encoding human MCH1  
receptors, transgenic, nonhuman animals which express DNA  
15 encoding a normal or mutant human MCH1 receptor, methods  
of isolating a human MCH1 receptor, methods of treating an  
abnormality that is linked to the activity of a human MCH1  
receptor, as well as methods of determining binding of  
compounds to mammalian MCH1 receptors. This invention  
20 provides a method of modifying the feeding behavior of a  
subject which comprises administering to the subject an  
amount of an MCH1 antagonist effective to decrease the  
body mass of the subject and/or decrease the consumption  
of food by the subject. This invention further provides a  
25 method of treating a subject suffering from depression  
and/or anxiety which comprises administering to the  
subject an amount of an MCH1 antagonist effective to treat  
the subject's depression and/or anxiety.